

WHAT IS CLAIMED IS:

1. A parts assembly for a prosthesis, particularly a cervical spine intervertebral disc prosthesis, comprising two base parts (1, 2), which are coupled to one another in an articulated manner by means of coupling parts (11, 12) formed on the base parts (1, 2), wherein the base parts (1, 2) are in each case formed in one piece with an associated coupling part (11, 12), wherein the base parts (1, 2) and the coupling parts (11, 12) are made of a material selected from the following group of materials: polyetherketone (PEK), polyetheretherketone (PEEK), polyacryletherketone (PAEK), polyetherketoneketone (PEKK), polyetherketoneetherketoneketone (PEKEKK) and polyetherketoneetherketone (PEKEK).
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- 15 2. The parts assembly according to Claim 1, wherein an anatomically adapted contact surface (5, 6) is formed on a respective outer side (3, 4) of the two base parts (1, 2).
- 20 3. The parts assembly according to Claim 1 or 2, wherein an anti-rotation means is formed on each of the two base parts (1, 2).
- 25 4. The parts assembly according to Claim 3, wherein the anti-rotation means comprises a web (7, 8) arranged on the respective outer side (3, 4).
5. The parts assembly according to any one of the preceding claims, wherein the two base parts (1, 2) are coupled to one another in an articulated manner by means of a sliding connection.
- 30 6. The parts assembly according to Claim 5, wherein the sliding connection is embodied by means of a sliding surface (14) formed on one of the coupling parts (12) and a countersliding surface (15), which is adapted to the sliding surface (14) and is formed on another of the coupling parts (11), wherein the sliding surface is slidably supported on the countersliding surface in the coupled state of the two base parts (1, 2).
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7. The parts assembly according to Claim 6, wherein the sliding surface (14) is formed on a hemispherical protrusion (13) on the coupling part (12).

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8. The parts assembly according to Claim 6 or 7, wherein the sliding surface (14) and the countersliding surface (15) are coated with a coating material based on a chromium-nickel alloy.

10 9. The parts assembly according to any one of the preceding claims, wherein the two base parts (1, 2) and/or the coupling parts (11, 12) are at least partially coated.

10. The parts assembly according to any of Claims 2 to 9, wherein 15 the anatomically adapted contact surfaces (5, 6) and/or the webs (7, 8) have a material coating.

11. A part for a prosthesis parts assembly, particularly a cervical spine intervertebral disc prosthesis part, comprising a base 20 part (1; 2) and a coupling part (11; 12) formed on the base part (1; 2) for articulated coupling to another base part (2; 1), wherein the base part (1; 2) and the coupling part (11; 12) are formed in one piece, and made of a material selected from the following group of materials: polyetherketone (PEK), polyether- 25 therketone (PEEK), polyacryletherketone (PAEK), polyetherketoneketone (PEKK), polyetherketoneetherketoneketone (PEKEKK) and polyetherketoneetherketone (PEKEK).

12. The part according to Claim 11, wherein an anatomically adapted 30 contact surface (5; 6) on an outer side (3; 4) of the base part (1; 2) is provided.

13. The part according to Claim 11 or 12, wherein an anti-rotation 35 means on the outer side (3; 4) of the base part (1; 2) is provided.

14. The part according to Claim 13, wherein the anti-rotation means comprises a web (7; 8) arranged on the outer side (3; 4).
15. The part according to any of Claims 11 to 14, wherein a sliding surface (14; 15) is formed on the coupling part (11; 12).
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16. The part according to Claim 15, wherein the sliding surface (14; 15) is curved.
- 10 17. The part according to Claim 15 or 16, wherein the sliding surface (14; 15) is coated with a material based on a chromium-nickel alloy.
- 15 18. The part according to any of Claims 11 to 17, wherein an at least partial material coating of the base part (1; 2) and/or of the coupling part (11; 12) is provided.
- 20 19. The part according to any of Claims 12 to 18, wherein the anatomically adapted contact surfaces (5, 6) and/or the webs (7, 8) have a material coating.